

L3 ANSWER 12 OF 66 CA COPYRIGHT 2005 ACS on STN
AN 142:99634 CA
ED Entered STN: 27 Jan 2005
TI **Cement** based stabilization and solidification for disposal of
sludge/ash bearing heavy metals
IN Lim, Bum Kwan
PA S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
IC ICM C04B018-10
CC 60-4 (Waste Treatment and Disposal)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2002006569	A	20020123	KR 2000-39244	20000710
PRAI	KR 2000-39244		20000710		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
------------	-------	------------------------------------

KR 2002006569	ICM	C04B018-10
---------------	-----	------------

AB A **cement**-based stabilizing agent for the secure disposal of wastes bearing hazardous constituents is provided to reduce the mobility of the hazardous constituents such as heavy metals and thereby limit the amount of constituent that can be leached when **water** or a mild acid solution comes into contact with waste matrix. The **cement**-based stabilizing agent is produced by blending **cement** 360-440 Kg/m³; **water** 105-135 Kg/m³; **bottom ash** 820-1000 Kg/m³; aggregate 810-990 Kg/m³; 2-6 weight% of a stabilizing agent, based on the weight of **cement** to be blended, wherein the stabilizing agent is prepared by mixing NaCl 100-120g, Na₂CO₃ 550-700 g, NaAlO₂ 150-180 g, FeCl₃ 20-50 g, CaCl₂ 50-100 g in 10 L **water**.

ST **cement** stabilization solidification disposal sludge ash heavy metal

IT Ashes (residues)
Cement
Hazardous wastes